

SUBSTITUTE SEQUENCE LISTING

<110> The Regents of the University of Michigan
 <120> Geraniol Synthase, Method of Production and Uses Thereof
 <130> 2115-002692
 <140> 10/582549
 <141> 2006-06-09
 <150> PCT.US2004/040321
 <151> 2004-12-02
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 <170> PatentIn version 3.5
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 <212> DNA
 <213> Ocimum basilicum
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 <301> Iijima,Y., Gang,D.R., Lewinsohn,E. and Pichersky,E.
 <302> Characterization of geraniol synthase from the peltate glands of
 sweet basil
 <303> Plant Physiol.
 <304> 134
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 <306> 370-379
 <307> 2004
 <308> AY362553
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Thr Pro Leu Ile Asn Gly Asp Asn Ser Gln Arg Lys Asn Thr Arg Gln
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His Met Glu Glu Ser Ser Ser Lys Arg Arg Glu Tyr Leu Leu Glu Glu
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Thr Thr Arg Lys Leu Gln Arg Asn Asp Thr Glu Ser Val Glu Lys Leu
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Lys Leu Ile Asp Asn Ile Gln Gln Leu Gly Ile Gly Tyr Tyr Phe Glu
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Ile Glu Ile Ser Pro Glu Ile Phe Leu Lys Phe Lys Asp Glu Arg Gly
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Phe Ala Glu Ala Arg Leu Arg Arg Ser Leu Ser Glu Pro Ala Ala Pro
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 Gln Val Gln Ala Gln His Gln Ser Glu Leu Thr Glu Ile Ile Arg Trp
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 Trp Lys Glu Leu Gly Leu Val Asp Lys Leu Ser Phe Gly Arg Asp Arg
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 Pro Leu Glu Cys Phe Leu Trp Thr Val Gly Leu Leu Pro Glu Pro Lys
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 Tyr Ser Ser Val Arg Ile Glu Leu Ala Lys Ala Ile Ser Ile Leu Leu
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 Val Ile Asp Asp Ile Phe Asp Thr Tyr Gly Glu Met Asp Asp Leu Ile
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Trp Arg Asp Leu Asn Gly Glu Leu Val Tyr Asn Lys Asn Leu Pro Leu
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Met Gly Asn Glu Ile Gln Thr Gly Arg Arg Thr Gly Gly Tyr Gln Pro
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Thr Leu Trp Asp Phe Ser Thr Ile Gln Leu Phe Asp Ser Glu Tyr Lys
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Glu Glu Lys His Leu Met Arg Ala Ala Gly Met Ile Ala Gln Val Asn
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Met Leu Leu Gln Glu Glu Val Asp Ser Ile Gln Arg Leu Glu Leu Ile
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Asp Asp Leu Arg Arg Leu Gly Ile Ser Cys His Phe Asp Arg Glu Ile
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Val Glu Ile Leu Asn Ser Lys Tyr Tyr Thr Asn Asn Glu Ile Asp Glu

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 Lys Glu Asp Lys His Val Ile Arg Ala Ser Glu Leu Val Thr Leu Val
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 Phe Lys Glu Ile Leu Ser Ser Ile Tyr Leu Asp His His Tyr Tyr Lys
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 Asn Pro Phe Pro Lys Glu Glu Arg Asp Leu Tyr Ser Thr Ser Leu Ala
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 Phe Arg Leu Leu Arg Glu His Gly Phe Gln Val Ala Gln Glu Val Phe
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 Asp Ser Phe Lys Asn Glu Glu Gly Glu Phe Lys Glu Ser Leu Ser Asp
 180 185 190
 Asp Thr Arg Gly Leu Leu Gln Leu Tyr Glu Ala Ser Phe Leu Leu Thr
 195 200 205
 Glu Gly Glu Thr Thr Leu Glu Ser Ala Arg Glu Phe Ala Thr Lys Phe
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 Leu Glu Glu Lys Val Asn Glu Gly Gly Val Asp Gly Asp Leu Leu Thr
 225 230 235 240
 Arg Ile Ala Tyr Ser Leu Asp Ile Pro Leu His Trp Arg Ile Lys Arg
 245 250 255
 Pro Asn Ala Pro Val Trp Ile Glu Trp Tyr Arg Lys Arg Pro Asp Met
 260 265 270
 Asn Pro Val Val Leu Glu Leu Ala Ile Leu Asp Leu Asn Ile Val Gln
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Ala Gln Phe Gln Glu Glu Leu Lys Glu Ser Phe Arg Trp Trp Arg Asn
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 Ala Arg Ile Met Met Gly Lys Val Asn Ala Leu Ile Thr Val Ile Asp
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 Ser Tyr Asp Val Met Lys Glu Lys Gly Val Asn Val Ile Pro Tyr Leu
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 485 490 495
 Asp Leu Gly Thr Ser Val Glu Glu Val Ser Arg Gly Asp Val Pro Lys
 500 505 510
 Ser Leu Gln Cys Tyr Met Ser Asp Tyr Asn Ala Ser Glu Ala Glu Ala
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 Arg Lys His Val Lys Trp Leu Ile Ala Glu Val Trp Lys Lys Met Asn
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Ala Glu Arg Val Ser Lys Asp Ser Pro Phe Gly Lys Asp Phe Ile Gly
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Cys Ala Val Asp Leu Gly Arg Met Ala Gln Leu Met Tyr His Asn Gly
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Asp Gly His Gly Thr Gln His Pro Ile Ile His Gln Gln Met Thr Arg
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Thr Leu Phe Glu Pro Phe Ala
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